



VP Series Mixed Bed Deionizers Model VPM

Flow Rates from 16 - 330 gpm

VP Series Mixed Bed Deionizers are designed and manufactured for industrial applications. They are rugged, pre-engineered, pre-assembled, standardized units that minimize expensive installation and start-up costs. Their simple design maximizes the efficiency and repeatability of the unit during the service and regeneration modes in order to provide a truly reliable water treatment unit. VP Series Mixed Bed Deionizers consist of a single vessel that contains both cation and anion ion exchange resins. The cation resin is a strong acid type. The anion resin is a strong base, Type II. These pre-engineered units provide high-quality water over the length of the service cycle. Operating conditions and an influent water analysis are required for predicting the effluent quality and total volume of water treated before regeneration is required.

- Simple design maximizes reliability, efficiency and repeatability
- 100 psig vessel ratings offer added strength and integrity
- Baked PVC lining and paint extend vessel life
- PLC controls ensure extremely reliable operation
- Inlet flow meter assures consistent performance
- Resistivity monitor assures consistent water quality
- Schedule 80 PVC piping ensures long life and does not degrade water quality

SYSTEM SPECIFICATIONS

Diameter	016	020	024	030	036	042	048	054	060	066	072
Service Flow Rate (gpm) . . .	16	25	36	56	82	112	145	185	229	272	330
Minimum Flow Rate (gpm) . . .	3	4	6	10	14	19	23	31	39	47	55
Media (cubic feet)											
Cation Resin Volume (ft ³) . . .	1.5	2	3	6	9	12	16	21	25	31	37
Capacity (Kgr)	30	40	60	120	180	240	320	420	500	620	740
Anion Resin Volume (ft ³) . . .	2.5	4	6	13	18	25	32	41	51	62	73
Capacity (Kgr)	25	40	60	130	180	250	320	410	510	620	730
Pipe Size Diameter	1"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3"	4"	4"	4"
System Dimensions											
H x L x W inch	89x48x52	89x51x55	117x54x56	132x57x60	141x63x66	145x70x70	200x78x75	159x90x78	159x96x84	166x106x93	174x117x112
. cm	226x122x132	385x129x140	297x137x142	335x145x152	358x160x173	368x178x178	508x198x191	404x229x198	404x244x213	422x269x236	442x297x259
Shipping Weight											
lb (kg)	1080 (491)	1750 (795)	2280 (1036)	3000 (1364)	3700 (1682)	4530 (2059)	5330 (2423)	6170 (2804)	7570 (3441)	10080 (4573)	12470 (5657)
Electrical Requirements	115V/60 Hz/single phase/15 amps										

ORDERING INFORMATION

Catalog Number:	VPM	S	XXX	X	X	P	D
System	VPM		016 - 16"x72"	048 - 48"x96"			
Configuration		S=Simplex*	020 - 20"x72"	054 - 54"x96"			
			024 - 24"x72"	060 - 60"x96"			
			030 - 30"x96"	066 - 66"x96"	A=100 psig		
			036 - 36"x96"	072 - 72"x96"	ASME code		
Vessel Size			042 - 42"x96"		X=100 psig		
Vessel Rating					non-code		
Vessel Support							
Lining & Paint							
Controls						P=Solid-State PLC	
Control Rating							D=NEMA 4 and UL Label

*Duplex units should be ordered as two (2) simplex units.

To determine your order number, replace the X with one of the numbered options below it.

Feed Water Requirements

Parameter:	
Suspended Solids	5 NTU maximum
Total Dissolved Solids	300 ppm maximum
Alkalinity	≥ 30% of total anions
Chlorides	≤ 30% of total anions
Sodium	≤ 50% of total cations
Silica	≤ 10% of total anions
Iron and Manganese	≤ 0.3 ppm combined
Free Chlorine	≤ 0.2 ppm
Color	≤ 5 APHA units
Organics	≤ 2.0 ppm TOC as O ₂

